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26 September 1956

PROGRESS REPORT

SYSTEM #2

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NO. 11
CLASSIFIED TO: 10011
DATE: 12/11/48
RECEIVED: 087102

CURRENT STATUS

R & D:

Essentially completed. Some work remains in refinements and desirable improvements to several components (Scope Receiver, Frequency Stepper, etc.). Minor design problems continue to arise in aircraft installations (i.e., relocation and cabling for APQ-56 and System #4 missions).

Production:

Priority has been revised downward drastically. Two production versions of the Air Unit and 1 production version of the complete Ground Unit exists. Two additional Air and 1 additional Ground Units will be delivered this month (October). Thereafter production will be targeted at delivering 4 additional Air Units and 4 Ground Units in early December for extensive field evaluation.

TESTING

Present:

Flights continue with No. 11 in communication with Seal Beach on a "limited availability" basis. The fear of antenna flash-over at altitude has been dissolved. Tests revealed severe temperature problem in Air Unit resulting from specific location. Design change has been flight tested and incorporated. Results generally highly gratifying.

Future:

Program for extensive operational evaluation tests being developed. Initial evaluation and generation of operational procedures will be done by Agency. Subsequent testing and demonstrations will include Air Force and Navy. Evaluation program will include establishment of ground units in 3 existing Agency radio stations in Europe which will then operate as evaluation network. Network hardware capability will remain in place for possible use by Project if considered necessary (Europe only).

Specific technical flight testing problems will arise from time to time between Ranch and Seal Beach to work out problems with Frequency Stepper and similar type Retro-fits.

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10/17
Full Performance

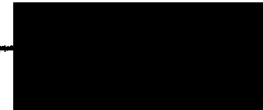
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PROBLEMS

- (1) Contract Cut-Back: Careful determination of optimum economical level of production to recover money already expended in material and labor.
- (2) Coordination of Seal Beach, Agency installations, and Department of Defense in thorough system evaluation program.
- (3) Exploitation of system technique in Department of Defense development of system to meet their several requirements while preserving essential Project security.
- (4) Lead-time required if necessary to reinstate use of System #2 for Project.

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SUBMITTED: _____



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